

Notice of Allowability

Application No.

09/963,261

Examiner

Michael J. Simitoski

Applicant(s)

MORIMOTO, SHINICHI

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the response of 8/7/2007.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

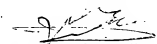
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. The response of 8/7/2007 was received and considered.
2. Claims 1-10 are pending.

Allowable Subject Matter

3. Claims 1-10 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 & 5, **Cropper** discloses a base station (MSC,HLR,VLR,ISR, Fig. 4, #113,121,130 [home]) comprising an interface portion (Fig. 6, #112) for making a communication with a terminal station/MS (Fig. 6, #500) and extracting authentication request information (call request) and a reception (registration) packet therefrom (col. 4, lines 35-65), a first authentication managing portion (HLR) for determining whether or not to authenticate said terminal station for said LAN (Visited network, Fig. 6, #100) corresponding to said authentication request information/call request received from said interface portion (Fig. 3A & col. 4, lines 35-57) and setting a result of the determination (Fig. 3C) to a first packet distributing table (HLR/ISR, Fig. 6, #130) and a first packet distributing portion (HLR/ISR, Fig. 6, #130) for referencing registered contents of said first packet distributing table (HLR/ISR, Fig. 6, #130 & col. 6, lines 36-38) for the packet received from said interface portion (col. 5, lines 12-18), transferring the packet received from said interface portion to said LAN (Visited network, Fig. 6, #100 & col. 6, lines 47-52) when said contents of said first packet distributing table represent that said terminal station has been authenticated for said LAN (HLR or VLR authenticates MS previously, completed registration, Fig. 3A), and transmitting the packet received from said interface portion to said predetermined server or network-connected device (VLR, Fig. 6, #430 & col. 5, lines 35-41) when said

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contents of said first packet distributing table represent that said terminal station has not been authenticated for said LAN (Fig. 3B, process A, col. 5, lines 19-23 & lines 35-40).

Regarding claims 9-1, the claims are substantially equivalent to, for example, claims 1-2. In this regard, **Cropper** discloses a system, as described above. **Peck** teaches that in mobile telecommunications systems, it is known to check a blacklist of mobile numbers when authenticating to deny access not only if the terminal is not authenticated, but also if the terminal is a stolen terminal (col. 1, lines 36-46, lines 50-54, lines 58-65, col. 5, lines 4-7 & col. 8, lines 15-17).

Further, the following is prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Japanese patent publication JP 2001-16646 is cited for teaching an authentication demand sent to an inner LAN authentication server; when a negative response is received, communication is disconnected (see attached partial translation).

U.S. Patent 6,307,837 is cited for teaching receiving authentication information from a terminal and authenticating via an authentication server.

However, the prior art of record fails to teach or disclose, either alone or in combination, determining whether or not to authenticate a terminal station for said LAN corresponding to a response from an inner LAN (within the LAN) authentication server responding to the authentication request information received and setting the result to a first packet distributing table, and transmitting the packet to a predetermined server when the contents of said packet distribution table represent that the terminal station has not been authenticated for the LAN, in combination with the remaining elements of the claims.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Simitoski whose telephone number is (571) 272-3841. The examiner can normally be reached on Monday - Thursday, 6:45 a.m. - 4:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 27, 2007

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